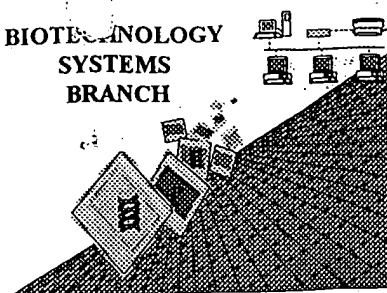


## **RAW SEQUENCE LISTING** **ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/838,718  
Source: OIPe  
Date Processed by STIC: 5/8/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

OIPE

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/838,718

DATE: 05/08/2001  
 TIME: 15:53:36

Input Set : A:\Sequence.ST25.txt  
 Output Set: N:\CRF3\05082001\I838718.raw

Does Not Comply  
 Corrected Diskette Needed  
*pg 1-2, 4*

3 <110> APPLICANT: Steidler, Lothar  
 4 Remaut, Erik  
 5 Fiers, Walter  
 7 <120> TITLE OF INVENTION: USE OF A CYTOKINE-PRODUCING LACTOCOCCUS STRAIN TO TREAT COLITIS  
 9 <130> FILE REFERENCE: 2676-4779US  
 11 <140> CURRENT APPLICATION NUMBER: US/09/838,718  
 11 <141> CURRENT FILING DATE: 2001-04-19  
 11 <150> PRIOR APPLICATION NUMBER: PCT/EP99/07800  
 12 <151> PRIOR FILING DATE: 1999-10-06  
 14 <150> PRIOR APPLICATION NUMBER: EP 98203529.7  
 15 <151> PRIOR FILING DATE: 1998-10-20  
 17 <160> NUMBER OF SEQ ID NOS: 8  
 19 <170> SOFTWARE: PatentIn version 3.0  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 21  
 23 <212> TYPE: DNA  
 C--> 24 <213> ORGANISM: Artificial *see item 11 on Ena Summary Sheet*  
 26 <220> FEATURE:  
 27 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used for obtaining the  
 28 plasmid pT1MIL1  
 30 <400> SEQUENCE: 1  
 31 cagtacagcc gggaagacaa t 21  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 25  
 36 <212> TYPE: DNA  
 C--> 37 <213> ORGANISM: Artificial  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used for obtaining the  
 41 plasmid pT1MIL1  
 43 <400> SEQUENCE: 2  
 44 gcactagtta gcttttcatt ttgat 25  
 47 <210> SEQ ID NO: 3  
 48 <211> LENGTH: 21  
 49 <212> TYPE: DNA  
 C--> 50 <213> ORGANISM: Artificial  
 52 <220> FEATURE:  
 53 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used for obtaining the  
 54 plasmid pT1TR5A  
 56 <400> SEQUENCE: 3  
 57 ctggtcctt ctcttggtga c 21  
 60 <210> SEQ ID NO: 4  
 61 <211> LENGTH: 53  
 62 <212> TYPE: DNA  
 C--> 63 <213> ORGANISM: Artificial  
 65 <220> FEATURE:  
 66 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used for obtaining the  
 67 plasmid pT1TR5A

## RAW SEQUENCE LISTING

DATE: 05/08/2001

PATENT APPLICATION: US/09/838,718

TIME: 15:53:36

Input Set : A:\Sequence.ST25.txt

Output Set : N:\CRF3\05082001\I838718.raw

```

69 <400> SEQUENCE: 4
70 ccactagtctt attaatgatg atgatgatga.tgcgcagtag ctgagtcctg ggg 53
73 <210> SEQ ID NO: 5
74 <211> LENGTH: 5230
75 <212> TYPE: DNA
C--> 76 <213> ORGANISM: Artificial
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Description of Artificial Sequence: plasmid pTREX1
81 <400> SEQUENCE: 5
82 gaattcgatt aagtcattctt acctctttta ttagtttttt cttataatct aatgataaca 60
84 tttttataat taatctataa accatatccc tctttggaat caaaatttat tatctactcc 120
86 ttgttagata tgttataata caagtatcag atctgggaga ccacaacggt ttcccactag 180
88 aaataatttt gtttaacttt agaaaggaga tatacgcatg caggatatct ctgaaatgga 240
90 tccggctgct aacaaagccc gaaaggaagc tgagttggct gctgccaccg ctgagcaata 300
92 actagcataa ccccttgagg cctctaaacg ggtcttgagg ggttttttgc tgaaaggagg 360
94 aactatatcc ggtgacctg caggcaagct ctgaaatcga tacgattttg aagtggaac 420
96 agataaaaaa aagcagttta aaattgttgc tgaactttta aaacaagcaa atacaatcat 480
98 tgtcgcaaca gatagcgaca gagaaggcga aaacattgcc tggtcgatca ttcataaagc 540
100 aaatgccttt tctaaagata aaacgtataa aagactatgg atcaatagtt tagaaaaaga 600
102 tgtgatccgt agcggttttc aaaatttgca accaggaatg aattactatc ccttttatca 660
104 agaagcgcaa aagaaaaacg aaatgataca ccaatcagtg caaaaaaaga tataatggga 720
106 gataagacgg ttcgtgttgc tgctgacttg caccatatca taaaaatcga aacagcaaag 780
108 aatggcgcaa acgtaaaaa agttatggaa ataagactta gaagcaaaact taagagtgtg 840
110 ttgatagtgc agtatcttaa aattttgtat aataggaatt gaagttaaatt tagatgctaa 900
112 aaatttgtaa ttaagaagga gtgattacat gaacaaaaat ataaaatatt ctcaaaactt 960
114 tttaacgagt gaaaaagtag tcaaccaaat aataaaacaa ttgaatttaa aagaaaccga 1020
116 taccgtttac gaaattggaa caggtaaagg gcatttaacg acgaaactgg ctaaaaataag 1080
118 taaacaggtt acgtctattg aattagacag tcatctattc aacttatcgt cagaaaaaatt 1140
120 aaaactgaat actcgtgtca ctttaattca ccaagatatt ctacagtttc aattocctaa 1200
122 caaacagagg tataaaattg ttgggagtat tccctaccat ttaagcacac aaattattaa 1260
124 aaaagtgggt ttgaaagcc atgcgtctga catctatctg attgttgaag aaggattcta 1320
126 caagcgtacc ttggatatcc accgaacact aggggtgctc ttgcacactc aagtctcgat 1380
128 tcagcaattg cttaagctgc cagcggaatg ctttcatcct aaacccaaaag taaacagtggt 1440
130 cttaataaaa cttaaccgcc ataccacaga tgttccagat aaatattgga agctatatac 1500
132 gtactttgtt tcaaaatggg tcaatcgaga atatcgtaa ctgtttacta aaaatcagtt 1560
134 tcatcaagca atgaaacacg ccaaagtaaa caatttaagt accgttactt atgagcaagt 1620
136 attgtctatt tttaatagtt atctattatt taacgggagg aaataattct atgagtcgct 1680
138 ttgtgaaatt tggaaagtta cacgttacta aagggaatgt agataaatta ttaggtatac 1740
140 tactgacagc ttccaaggag ctaaagaggt ccctagcgct cttatcatgg ggaagctcgg 1800
142 atcatatgca agacaaaata aactcgcaac agcacttgga gaaatgggac gaatcgagaa 1860
144 aaccctcttt acgctggatt acatatctaa taaagccgta aggagacggg ttcaaaaagg 1920
146 tttaaataaa ggagaagcaa tcaatgcatt agctagaact atattttttg gacaacgtgg 1980
148 agaatttaga gaacgtgctc tccaagacca gttacaaaga gctagtgcac taaacataat 2040
150 tattaacgct ataagtgtgt ggaacactgt atatatggaa aaagccgtag aagaattaaa 2100
152 agcaagagga gaatttagag aagatttaat gccatatgcg tggccgtag gatgggaaca 2160
154 tatcaatttt cttggagaat acaatttga aggattacat gacactgggc aaatgaattt 2220
156 acgtccttta cgtataaaa agccgtttta ttcttaatat aacggctctt tttatagaaa 2280
158 aaatccttag cgtggttttt ttccgaaatg ctggcggtac cccaagaatt agaaatgagt 2340
160 agatcaaaatt attcacgaat agaatcagga aaatcagatc caaccataaa aacactagaa 2400

```

## RAW SEQUENCE LISTING

DATE: 05/08/2001

PATENT APPLICATION: US/09/838,718

TIME: 15:53:36

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF3\05082001\I838718.raw

```

162 caaattgcaa agttaactaa ctcaacgcta gtagtggatt taatcccaaa tgagccaaca 2460
164 gaaccagagc cagaaacaga atcagaacaa gtaacattgg atttagaaat ggaagaagaa 2520
166 aaaagcaatg acttcgtgtg aataatgcac gaaatcgttg cttatTTTTT tttaaaagcg 2580
168 gtatactaga tataacgaaa caacgaactg aatagaaacg aaaaaagagc catgacacat 2640
170 ttataaaaatg tttgacgaca ttttataaat gcatagcccg ataagattgc caaaccaacg 2700
172 cttatcagtt agtcagatga actcttccct cgtaagaagt tatttaatta actttgtttg 2760
174 aagacggtat ataaccgtac tatcattata tagggaaatc agagagtttt caagtatcta 2820
176 agctactgaa ttttaagaatt gtttaagcaat caatcggaat tcgtttgatt gctttttttg 2880
178 tattcaattta tagaaggtgg agtttgtatg aatcatgatg aatgtaaaac ttatataaaa 2940
180 aatagttttat tggagataag aaaattagca aatatctata cactagaaac gttaaagaaa 3000
182 gagttagaaa agagaaatat ctacttagaa acaaaatcag ataagtattt ttcttcggag 3060
184 ggggaagatt atatatataa gttaatagaa aataacaaaa taatttattc gattagtggg 3120
186 aaaaaattga cttataaaag aaaaaaatct ttttcaaaac atgcaatatt gaaacagttg 3180
188 aatgaaaaag caaaccaagt taattaaaca acctatttta taggatttat aggaaaggag 3240
190 aacagctgaa tgaatatccc ttttgttgta gaaactgtgc ttcattgacg cttgttaaag 3300
192 taccatttta aaaatagtaa aattcgtctca atcactacca agccaggtaa aagcaaaggg 3360
194 gctatttttg cgtatcgtct aaaaatcaagc atgattggcg gtcgtggtgt tgttctgact 3420
196 tccgaggaag cgattcaaga aaatcaagat acattttacac attggacacc caacgtttat 3480
198 cgttatggaa cgtatgcaga cgaaaaccgt tcatcacga aaggacattc tgaaaacaat 3540
200 ttaagacaaa tcaatacctt ctttattgat tttgatattc acacggcaaa agaaactatt 3600
202 tcagcaagcg atattttaac aaccgctatt gatttaggtt ttatgcctac tatgattatc 3660
204 aaatctgata aaggttatca agcatatttt gttttagaaa cgccagtcta tgtgacttca 3720
206 aaatcagaat ttaaatctgt caaagcgacc aaaaataatt cgcaaatat ccgagaatat 3780
208 tttggaaagt ctttgccagt tgatctaacg tgtaatcatt ttggtattgc tcgcatacca 3840
210 agaacggaca atgtagaatt ttttgatcct aattaccgtt attctttcaa agaattggca 3900
212 gattggtctt tcaaacaaac agataataag ggctttactc gttcaagtct aacggtttta 3960
214 agcggtagac aaggcaaaaa acaagtagat gaacctggt ttaatctctt attgcacgaa 4020
216 acgaaatttt caggagaaaa gggtttaata ggcgtaata acgtcatgtt taccctctct 4080
218 ttagcctact ttagtccagg ctattcaatc gaaacgtgcg aatataatat gtttgagttt 4140
220 aataatcgat tagatcaacc cttagaagaa aaagaagtaa tcaaaattgt tagaagtgcc 4200
222 tattcagaaa actatcaagg ggctaatagg gaatacatta ccattctttg caaagcttgg 4260
224 gtatcaagtg atttaaccag taaagattta tttgtccgtc aagggtggtt taaattcaag 4320
226 aaaaaagaa gcgaacgtca acgtgttcat ttgtcagaat ggaaagaaga ttaattggct 4380
228 tatattagcg aaaaaagcga tgtatacaag cttattttag tgacgaccaa aaaagagatt 4440
230 agagaagtgc taggcattcc tgaacggaca ttagataaat tgctgaaggc actgaaggcg 4500
232 aatcaggaaa ttttctttaa gattaaacca ggaagaaatg gtggcattca acttgctagt 4560
234 gttaaatcat tgttgcctat gatcattaaa gtaaaaaaag aagaaaaaga aagctatata 4620
236 aaggcgctga caaattcttt tgacttagag catacattca ttcaagagac tttaaacaag 4680
238 cttagcagaac gccctaaaac ggacacacaa ctcgatttgt ttagctatga tacaggctga 4740
240 aaataaaaacc cgcactatgc cattacattt atatctatga tacgtgtttg ttttttcttt 4800
242 gctgttttagc gaatgattag cagaaatata cagagtaaga ttttaattaa ttattagggg 4860
244 gagaaggaga gtagtcccg aaaactttta gttggcttgg actgaacgaa gtgagggaaa 4920
246 ggctactaaa acgtcgaggg gcagtgcagc cgaagcgaa acttgatttt ttaattttct 4980
248 atcttttata ggtcattaga gtatacttat ttgtcctata aactatttag cagcataata 5040
250 gatttattga ataggtcatt taagttgagc atatttagag aggaaaatct tggagaaata 5100
252 tttgaagaac ccgattacat ggattggatt agttcttgtg gttacgtggt ttttaactaa 5160
254 aagtagtgaa tttttgattt ttggtgtgtg tgtcttgttg ttagtatttg ctagtcaaa 5220
256 tgattaaata 5230
259 <210> SEQ ID NO: 6

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/838,718

DATE: 05/08/2001  
TIME: 15:53:36

Input Set : A:\Sequence.ST25.txt  
Output Set: N:\CRF3\05082001\I838718.raw

```

260 <211> LENGTH: 5906
261 <212> TYPE: DNA
C--> 262 <213> ORGANISM: Artificial
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence: plasmid pT1NX
267 <400> SEQUENCE: 6
268 gaattcgatt aagtcattt accctcttita ttagtttttt cttataatct aatgataaca      60
270 tttttataat taatctataa accatatccc tctttggaat caaaatttat tatctactcc      120
272 tttgtagata tgttataata caagtatcag atctgggaga ccacaacggt tccccactag      180
274 aaataatttt gtttaacttt agaaaggaga tatacgcatg aaaaaaaga ttatctcagc      240
276 tatttttaatg tctacagtca tactttctgc tgcagcccg ttgtcagggtg ttacgcccgg      300
278 cgacggatcc aaaagaggaa gacaataaca agcctggcaa agaagacaat aacaagcctg      360
280 gcaaagaaga caataacaag cctggcaaag aagacaacaa caagcctggc aaagaagaca      420
282 acaacaagcc tggtaaagaa gacaacaaca agcctggcaa agaagacggc aacaagcctg      480
284 gtaagaaga caacaaaaaa cctggtaaag aagatggcaa caagcctggt aaagaagaca      540
286 caaaaaaacc tggtaaagaa gacggcaaca agcctggcaa agaagatggc acaaacctg      600
288 gtaagaaga tggtaacgga gtacatgtcg ttaaacctgg tgatacagta aatgacattg      660
290 caaaagcaaa cggcactact gctgacaaaa ttgctgcaga taacaaatta gctgataaaa      720
292 acatgatcaa acctggtaaa gaacttgttg ttgataagaa gcaaccagca aaccatgcag      780
294 atgctaacaa agctcaagca ttaccagaaa ctggcgaaaga aaatccattc atcggtacaa      840
296 ctgtatttgg tggattatca ttacgcttag gtgcagcgtt attagctgga cgtcgtcgcg      900
298 aactataact agtagatccg gctgctaaca aagcccgaaa ggaagctgag ttggtcgtg      960
300 ccaccgctga gcaataacta gcataacccc ttggggcctc taaacgggtc ttgaggggtt     1020
302 ttttgcgtga aggaggaact atatccgat gacctgcagg caagctctag aatcgatag      1080
304 attttgaagt ggcaacagat aaaaaaaagc agtttaaaat tgttgcgtga cttttaaaac     1140
306 aagcaaatat aatcattgtc gcaacagata gcgacagaga aggcgaaaac attgcctggt      1200
308 cgatcattca taaagcaaat gccttttcta aagataaaaac gtataaaaga ctatggatca      1260
310 atagtattaga aaaagatgtg atccgtagcg gttttcaaaa ttgcaacca ggaatgaatt      1320
312 actatccctt ttatcaagaa gcgcaaaaga aaaacgaaat gatacaccaa tcagtgcaaa      1380
314 aaaagatata atgggagata agacggttcg tgttcgtgct gacttgcaac atatcataaa      1440
316 aatcgaaaca gcaagaatg gcggaacgt aaaagaagtt atggaaataa gacttagaag      1500
318 caaacttaag agtgtgttga tagtgagta tcttaaaatt ttgtataata ggaattgaag      1560
320 taaattaga tgctaaaaat ttgtaattaa gaaggagtga ttacatgaac aaaaatataa      1620
322 aatattctca aaacttttta acgagtgaat aagtactcaa ccaaataata aaacaattga      1680
324 atttaaaaga aaccgatacc gtttacgaaa ttggaacagg taaagggcat ttaacgacga      1740
326 aactggctaa aataagtaaa caggtaacgt ctattgaatt agacagtcac ctattcaact      1800
328 tatcgtcaga aaaattaaaa ctgaatactc gtgtcacttt aattcaccaa gatattctac      1860
330 agtttcaatt ccctaacaaa cagaggata aaattgttgg gagtattcct taccatttaa      1920
332 gcacacaaat tattaaaaaa gtggtttttg aaagccatgc gctgacatc tatctgattg      1980
334 ttgaagaagg attctacaag cgtaccttgg atattcaccg aacactaggg ttgctcttgc      2040
336 acactcaagt ctcgattcag caattgctta agctgccagc ggaatgcttt catcctaacc      2100
338 caaaagtaaa cagtgtctta ataaaactta cccgccatac cacagatggt ccagataaat      2160
340 attggaagct atatacgtac tttgtttcaa aatgggtcaa tcgagaatat cgtcaactgt      2220
342 ttactaaaaa tcagtttcat caagcaatga aacacgcaa agtaacaat ttaagtaccg      2280
344 ttacttatga gcaagtattg tctattttta atagtatatc attatttaac gggaggaaat      2340
346 aattctatga gtcgcttttg taaatttggg aagttaacag ttactaaagg gaatgtagat      2400
348 aaattattag gtatactact gacagcttcc aaggagctaa agaggtccct agcgtcttta      2460
350 tcatggggaa gctcggatca tatgcaagac aaaataaact cgcaacagca cttggagaaa      2520
352 tgggacgaat cgagaaaacc ctctttacgc tggattacat atctaataaa gccgtaagga      2580

```

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/838,718

DATE: 05/08/2001  
TIME: 15:53:36

Input Set : A:\Sequence.ST25.txt  
Output Set: N:\CRF3\05082001\I838718.raw

```

354 gacgggttca aaaagggttta aataaaggag aagcaatcaa tgcattagct agaactatat 2640
356 tttttggaca acgtggagaa ttttagagaac gtgctctcca agaccagtta caaagagcta 2700
358 gtgcactaaa cataattatt aacgctataa gtgtgtggaa cactgtatat atggaaaaag 2760
360 ccgtagaaga attaaaagca agaggagaat ttagagaaga tttaatgcca tatgcgtggc 2820
362 cgtaggatg ggaacatatt aattttcttg gagaatacaa atttgaagga ttacatgaca 2880
364 ctggggcaaat gaattttacgt cttttacgta taaaagagcc gttttattct taatataacg 2940
366 gctcttttta tagaaaaaat ccttagcgtg gtttttttcc gaaatgctgg cggtagccca 3000
368 agaattagaa atgagtagat caaattattc acgaatagaa tcaggaaaat cagatccaac 3060
370 cataaaaaaca ctagaacaaa ttgcaaaagt aactaactca acgctagtag tggatttaatt 3120
372 cccaaatgag ccaacagaaac cagagccaga aacagaatca gaacaagtaa cattggattt 3180
374 agaaatggaa gaagaaaaaa gcaatgactt cgtgtgaata atgcacgaaa tcgttgctta 3240
376 ttttttttta aaagcgggat actagatata acgaaacaac gaactgaata gaaacgaaaa 3300
378 aagagccatg acacatttat aaaatgtttg acgacatttt ataatgcat agcccgataa 3360
380 gattgccaaa ccaacgctta tcagttagtc agatgaactc ttccctcgta agaagttatt 3420
382 taatttaactt tgtttgaaga cggatatata ccgtactatc attatatagg gaaatcagag 3480
384 agttttcaag tatctaagct actgaattta agaattgtta agcaatcaat cggaaatcgt 3540
386 ttgattgctt tttttgtatt catttataga aggtggagtt tgtatgaatc atgatgaatg 3600
388 taaaacttat ataaaaaata gtttattgga gataagaaaa ttagcaataa tctatacact 3660
390 agaaacgttt aagaaagagt tagaaaagag aaatatctac ttagaaacaa aatcagataa 3720
392 gtatttttct tcggaggggg aagattatat atataagtta atagaaaaata acaaaaataat 3780
394 ttatttcgatt agtggaaaaa aattgactta taaaggaaaa aaatcttttt caaaacatgc 3840
396 aatattgaaa cagttgaatg aaaaagcaaa ccaagttaat taaacaacct attttatagg 3900
398 atttatagga aaggagaaca gctgaatgaa tatccctttt gttgtagaaa ctgtgcttca 3960
400 tgacggcttg ttaaagtaca aatttaaaaa tagtaaaatt cgctcaatca ctaccaagcc 4020
402 aggtaaaagc aaaggggcta tttttgcgta tcgctcaaaa tcaagcatga ttggcggctg 4080
404 tgggtgtgtt ctgacttcog aggaagcgat tcaagaaaaat caagatacat ttacacattg 4140
406 gacacccaac gtttatcggt atggaacgta tgcagacgaa aaccgttcac acacgaaagg 4200
408 acattctgaa aacaatttaa gacaaatcaa taccttcttt attgattttg atattcacac 4260
410 ggcaaaaagaa actatttcag caagcgatat ttttaacaacc gctattgatt taggttttat 4320
412 gcctactatg attatcaaat ctgataaagg ttatcaagca tattttggtt tagaaacgcc 4380
414 agtctatgtg acttcaaaat cagaatttaa atctgtcaaa gcagccaaaa taatttcgca 4440
416 aaatatccga gaatattttg gaaagtcttt gccagttgat ctaacgtgta atcatttttg 4500
418 tattgctcgc ataccaagaa cggacaatgt agaatttttt gatcctaatt accgttatte 4560
420 tttcaaagaa tggcaagatt ggtctttcaa acaaacagat aataagggtt ttactcgttc 4620
422 aagtcctaacg gttttaagcg gtacagaagg caaaaaacaa gtagatgaac cctgggttaa 4680
424 totcttattg cacgaaaacga aattttcagg agaaaagggg ttaatagggc gtaataacgt 4740
426 catgtttacc ctctctttag cctactttag ttcaggctat tcaatcgaaa cgtgcgaata 4800
428 taatatgttt gagtttaata atcgattaga tcaaccctta gaagaaaaag aagtaatcaa 4860
430 aattgttaga agtgcctatt cagaaaacta tcaaggggct aataggggat acattaccat 4920
432 totttgcaaa gcttggtgat caagtattt aaccagtaaa gatttatttg tccgtcaagg 4980
434 gtggttttaa ttcaagaaaa aaagaagcga acgtcaacgt gttcatttgt cagaatggaa 5040
436 agaagattta atggcttata tttagcgaata aagcgatgta tacaagcctt atttagtgac 5100
438 gaccaaaaaa gagattagag aagtgcagg cattcctgaa cggacattag ataaattgct 5160
440 gaaggtactg aaggcgaatc aggaattttt cttaagatt aaaccaggaa gaaatggtgg 5220
442 cattcaactt gctagtgtta aatcattgtt gctatogac attaaagtaa aaaaagaaga 5280
444 aaaagaaagc tatataaagg cgctgacaaa ttcttttgac ttagagcata cattcattca 5340
446 agagacttta aacaagctag cagaacgccc taaaacggac acacaactcg atttgtttag 5400
448 ctatgatata ggctgaaaat aaaaccgcga ctatgccatt acatttatat ctatgatacg 5460
450 tgtttgtttt ttctttgctg tttagcgaat gattagcaga aatatacaga gtaagatttt 5520

```

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/838,718

DATE: 05/08/2001

TIME: 15:53:37

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF3\05082001\I838718.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:24 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1  
L:37 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2  
L:50 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:63 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4  
L:76 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:262 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:470 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
L:674 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/838,718

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos      The amino acid number/text at the end of each line "wrapped " down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length      Sequence(s) \_\_\_\_ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 ☐ Skipped Sequences (OLD RULES)      Sequence(s) \_\_\_\_ missing. If intentional, please use the following format for each skipped sequence:  
**(2) INFORMATION FOR SEQ ID NO:X:**  
**(i) SEQUENCE CHARACTERISTICS:**(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
**(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:**  
**This sequence is intentionally skipped**  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES)      Sequence(s) \_\_\_\_ missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 ☐ Use of n's or Xaa's (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☒ Use of "Artificial" (NEW RULES)      Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.  
Valid response is Artificial Sequence.
- 12 ☐ Use of <220>Feature (NEW RULES)      Sequence(s) \_\_\_\_ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.